

**DECLARATION FOR PATENT APPLICATION AND APPOINTMENT OF ATTORNEY**

As a below-named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name; I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention (Design, if applicable) entitled **OPTICAL MODULES USING OPTICAL WAVEGUIDES**.

- is attached hereto.
- was filed on \_\_\_\_\_ as Application Serial No. \_\_\_\_\_, and was amended on \_\_\_\_\_ (if applicable).
- was filed on \_\_\_\_\_ as International Application (PCT) No. \_\_\_\_\_, and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment(s) referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with *Title 37, Code of Federal Regulations, § 1.56(a)*. I hereby claim foreign priority benefits under *Title 35, United States Code § 119* of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which the priority is claimed.

**PRIOR FOREIGN APPLICATION(S)**

NUMBER	COUNTRY	DAY/MONTH/YEAR FILED	PRIORITY CLAIMED
2002—347122	Japan	29 November 2002	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No

I hereby claim the benefit under *Title 35, United States Code, § 120* of any United States application(s) or PCT international application(s) designating The United States of America listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of *Title 35, United States Code, § 112*, I acknowledge the duty to disclose material information as defined in *Title 37, Code of Federal Regulations, § 1.56(a)* which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:

APPLICATION NUMBER	FILING DATE	STATUS (Patented, Pending or Abandoned)
PCT/JP03/01511	13 February 2003	Pending

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine, or imprisonment, or both, under *Section 1001 of Title 18 of the United States Code*, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: I (We) hereby appoint as my (our) attorneys, with full powers of substitution and revocation, to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: Stanley P. Fisher, Registration Number 24,344; Juan Carlos Marquez, Registration Number 34,072.

Send correspondence to: REED SMITH LLP  
3110 Fairview Park Drive, Suite 1400  
Falls Church, Virginia 22042 Telephone calls to:  
Stanley P. Fisher  
(703) 641-4211

See following pages for additional joint inventors.

<i>Full Name of First or Sole Inventor</i> <b>Makoto Takahashi</b>	<i>Citizenship</i> <b>Japan</b>		
<i>Residence Address – Street</i> <b>c/o Hitachi, Ltd., Intellectual Property Group New Marunouchi Bldg., 6-1, Marunouchi 1-chome</b>	<i>Post Office Address Street</i> <b>c/o Hitachi, Ltd., Intellectual Property Group New Marunouchi Bldg., 6-1, Marunouchi 1-chome</b>		
<i>City</i> <b>Chiyoda-ku, Tokyo</b>	<i>City</i> <b>Chiyoda-ku, Tokyo</b>		
<i>State or Country</i> <b>Japan</b>	<i>Zip</i> <b>100-8220</b>	<i>State or Country</i> <b>Japan</b>	<i>Zip</i> <b>100-8220</b>
<i>DATE</i>	<i>SIGNATURE</i>		

**DECLARATION FOR PATENT APPLICATION AND APPOINTMENT OF ATTORNEY**

Page 2

 See following pages for additional joint inventors.

<i>Full Name of Second Inventor</i> Tatemi IDO	<i>Citizenship</i> Japan		
<i>Residence Address – Street</i> c/o Hitachi, Ltd., Intellectual Property Group New Marunouchi Bldg., 6-1, Marunouchi 1-chome	<i>Post Office Address Street</i> c/o Hitachi, Ltd., Intellectual Property Group New Marunouchi Bldg., 6-1, Marunouchi 1-chome		
<i>City</i> Chiyoda-ku, Tokyo	<i>City</i> Chiyoda-ku, Tokyo		
<i>State or Country</i> Japan	<i>Zip</i> 100-8220	<i>State or Country</i> Japan	<i>Zip</i> 100-8220
<i>DATE</i>	<i>SIGNATURE</i>		
<i>Full Name of Third Inventor</i> Hirohisa SANO	<i>Citizenship</i> Japan		
<i>Residence Address – Street</i> c/o Hitachi, Ltd., Intellectual Property Group New Marunouchi Bldg., 6-1, Marunouchi 1-chome	<i>Post Office Address Street</i> c/o Hitachi, Ltd., Intellectual Property Group New Marunouchi Bldg., 6-1, Marunouchi 1-chome		
<i>City</i> Chiyoda-ku, Tokyo	<i>City</i> Chiyoda-ku, Tokyo		
<i>State or Country</i> Japan	<i>Zip</i> 100-8220	<i>State or Country</i> Japan	<i>Zip</i> 100-8220
<i>DATE</i>	<i>SIGNATURE</i>		
<i>Full Name of Fourth Inventor</i> Nobuo MIYADERA	<i>Citizenship</i> Japan		
<i>Residence Address – Street</i> c/o Hitachi Chemical Co., Ltd. 1-1, Nishishinjuku 2-chome	<i>Post Office Address Street</i> c/o Hitachi Chemical Co., Ltd. 1-1, Nishishinjuku 2-chome		
<i>City</i> Shinjuku-ku, Tokyo	<i>City</i> Shinjuku-ku, Tokyo		
<i>State or Country</i> Japan	<i>Zip</i> 163-0449	<i>State or Country</i> Japan	<i>Zip</i> 163-0449
<i>DATE</i>	<i>SIGNATURE</i>		